

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) An optical module, comprising:

- a semiconductor optical device;
- a stem made of a first material for providing the semiconductor optical device;
- a plurality of lead terminals extending along a predetermined axis from the stem, the lead terminals transmitting signals between the semiconductor optical device and an electronic circuit;
- a substrate for providing the electronic circuit thereon; and
- a base made of a second material different from the first material for mounting the substrate, the base being in direct contact with the stem,

wherein the base extends along the predetermined axis from the stem and the lead terminals are electrically and directly connected to the electronic circuit provided on the substrate.

Claim 2. (Cancelled).

3. (Previously Presented) The optical module according to claim 1, wherein the base has an edge portion in direct contact with the stem, and the edge portion contains the first material.

4. (Previously Presented) The optical module according to claim 3, wherein a content of the first material in the edge portion gradually decreases from the stem to a position apart from the stem.

5. (Original) The optical module according to claim 3, wherein at least edge portion is formed by the sintering.

Claims 6 and 7. (Cancelled).

8. (Original) The optical module according to claim 1, wherein the semiconductor optical device is a semiconductor laser diode.

9. (Original) The optical module according to claim 1, wherein the semiconductor optical device is a photo diode.

10. (Original) The optical module according to claim 1, wherein the semiconductor optical device is a semiconductor laser diode and a photo diode, the optical module constituting an optical transceiver.

11. (Previously Presented) A light-emitting module, comprising:
a light-emitting device;
a substrate for installing an electronic circuit; and
a package including a primary portion and a base, the primary portion having a stem made of first material, a casing, and a plurality of lead terminals extending from the stem to connect the light-emitting device in electrical contact with the electronic circuit on the substrate,

the stem installing the light-emitting device thereon, the casing enclosing the light-emitting device therein co-operating with the stem, and the base installing the substrate thereon,
wherein the base is made of second material and is in direct contact with the stem.

12. (Previously Presented) The light-emitting module according to claim 11,
wherein the primary portion forms a can-package with the casing having a cylindrical shape.

13. (Previously Presented) The light-emitting module according to claim 11,
wherein the base has an edge portion in contact with the stem, the edge portion containing the first material.

14. (Previously Presented) The light-emitting module according to claim 13,
wherein a content of the first material in the edge portion gradually decreases from the stem to a position apart from the stem.

15. (Previously Presented) The light-emitting module according to claim 13,
wherein the base is formed by the sintering.

16. (Previously Presented) The light-emitting module according to claim 11,
wherein the first material is CuW.

17. (Previously Presented) The light-emitting module according to claim 11,

wherein the second material is aluminum (Al).

18. (Previously Presented) The light-emitting module according to claim 11,
wherein the second material is copper (Cu).

Claims 19 and 20. (Cancelled).